Applicant: Rajasekhar Bandaru asekhar Bandaru 11034036 070505 d 69112, Protein Kinase Molecules and Uses Title: 6873

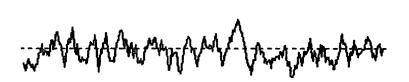
Therefor

USSIN: 10/024,036

Filed: December 17, 2001

Attorney/Agent: Jean M. Silveri Docket No.: MPI2000-521P1RM

Sheet 1 of 8 Sheets



Applicant: Rajasekhar Bandaru

Title: 68730 and 6 Protein Kinase Molecules and Uses

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USSN: 10/2/4.,036

Shed: December 17, 2001

Attorney/Ageat: Jean M. Silveri Docket No.: MP12000-521P1RM

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FIGURE 2

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USS##: 10/024,636

Filed: December 17, 2001

Attorney/Agent: Jean M. Silveri Docket No.: MPI2000-521P1RM
Sheet 3 of 8 Sheets

	-	
pkinase: domain	1 of 1, from 23 to 279: score 346.3, E = 3.4e-100	
	<pre>*->yelleklGeGsfGkVykakhk.tgkivAvKilkkeslslrE</pre>	
	+e++e+lG G+f++V +a++k tgk++AvK+++k+ l+++++ +E	
68730	FEFKETLGTGAFSEVVLAEEKaTGKLFAVKCIPKKALKGkessiENE 69	
	iqilkrlsHpNIvrllgvfedtddhlylvmEymegGdLfdylrrngplse	
	i++l++++H+NIv l +++e +++hlylvm+++ gG+Lfd+++++g ++e	
68730	70 IAVLRKIKHENIVALEDIYE-SPNHLYLVMQLVSGGELFDRIVEKGFYTE 118	l
	keakkialQilrGleYLHsngivHRDLKpeNILldengtvKiaDFGL	
	k+a +++Q+l ++ YLH++givHRDLKpeN+L +++++ ++ i+DFGL	
68730	119 KDASTLIRQVLDAVYYLHRMGIVHRDLKPENLLYYSQdeeSKIMISDFGL 168	
	ArlleklttfvGTpwYmmAPEvilegrgysskvDvWSlGviLyEllt	
	++ +++ +++t +GTp+Y+ APEv l +++ys++vD WS+Gvi y 11+	
68730	169 SKMEgkgDVMSTACGTPGYV-APEV-LAQKPYSKAVDCWSIGVIAYILLC 216	
	${\tt ggplfpgadlpaftggdevdqliifvlklPfsdelpktridpleelfrik}$	
	g +Pf+d ++ ++lf+ +	
68730	217 GENDSKLFEQI 233	
	<pre>krrlplpsncSeelkdLlkkcLnkDPskRpGsatakeilnhpwf< ++ + + +p ++ +S+++kd+++ + +kDP+kR+</pre>	
68730	234 LKaeyefDSPYWDDISDSAKDFIRNLMEKDPNKRYTCEOAARHPWI 279	

Title: 68730 and 69112, Protein Kinase Molecules and Uses

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USSI: 10/0

Attorney/Agent: Jean J. Cilveri

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. Sheet 4 of 8 Sheets **serkin 6:** domain 1 of 1, from 23 to 279: score 386.6, E = 2.5e-112*->YellkklGkGaFGkVylardkktgrlvAiKvik.....erilrE +e+ ++lG GaF++V la +k tg+l+A+K+i+++ ++++ +i++E 68730 FEFKETLGTGAFSEVVLAEEKATGKLFAVKCIPkkalkgkeSSIENE 69 ikiLkk.dHPNIVkLydvfed.dklylVmEyceGdlGdLfdllkkrgrrg i++L+k +H+NIV L d++e++++lylVm +++G G+Lfd++++++g 68730 70 IAVLRKiKHENIVALEDIYESPNHLYLVMQLVSG--GELFDRIVEKGF-- 115 lrkvlsE.earfyfrQilsaLeYLHsqgIiHRDLKPeNiLLds.....hv ++E++a ++rQ+l+a+ YLH++gI+HRDLKPeN+L s+++++ + 68730 116 ----YTEKDASTLIRQVLDAVYYLHRMGIVHRDLKPENLLYYSqdeesKI 161 KlaDFGlArql.....ttfvGTpeYmAPEvl...gYgkpavDiWSlGci +++DFGl++ ++++ +t +GTp Y+APEvl +++Y+k avD WS+G+i 68730 162 MISDFGLSKMEgkgdvmSTACGTPGYVAPEVLaqkPYSK-AVDCWSIGVI 210 lyElltGkpPFp..qldlifkkig......SpeakdLikklL y+ll+G+pPF+++++ ++f++i++ +++ ++++++ S++akd+i++l+ 68730 211 AYILLCGYPPFYdeNDSKLFEQILkaeyefdspywddiSDSAKDFIRNLM 260 vkdPekRlta.eaLedeldikaHPff<-*

HP++

279

+kdP+kR+t+++a +

261 EKDPNKRYTCeQAAR-----HPWI

68730

Attorney/Agent: Jean M. Silveri Docket No.: MPI2000-521P1RM Sheet 5 of 8 Sheets **tyrkin_6**: domain 1 of 1, from 23 to 279: score 35.7, E = 4e-14*->ltlgkkLGeGaFGeVykGtlk...ieVAVKtLkeda....keeFlrE +++++LG GaF eV++++ k ++ AVK++ + a ++++ + +E FEFKETLGTGAFSEVVLAEEKatgKLFAVKCIPKKAlkgkESSIENE 69 68730 23 akiMkklGgkHpNiVkLlGvcteegrrFmevePlmivmEymegGdLldyL+ +++k+ kH+NiV+L + ++ 1++vm +++qG L d++ 68730 70 IAVLRKI--KHENIVALEDIYESP-----NHLYLVMQLVSGGELFDRI 110 rknrpklslsdLlsfAlQIAkGMeYLesknfvHRDLAARNcLvgenk... ++ + +d Q+ + YL+++++vHRDL N L+ ++ +++ 68730 111 -VEKGFYTEKDASTLIRQVLDAVYYLHRMGIVHRDLKPENLLYYSQDees 159 vvKIsDFGLsRdlyddDkkGeskdyYrkkggkggktllPirWmAPEslkd + IsDFGLs+ + + d+ +++ g+ + 68730 160 KIMISDFGLSKMEGKG-----DVMSTAC--GTPG----YVAPEVLAQ 195 gkFtskSDVWSFGVlLWEiftlGeqPYpgeiqqfmsneevleylkkGyRl + ++ + D WS GV + i+ G +P ++ +++++++ k ++ 196 KPYSKAVDCWSIGVIAY-ILLCGYPPFYD----ENDSKLFEQILKAEYE 239 68730 pkPendlpiSs....vtCPdelYdlMlqCWaedPedRPtFsel..verl< ++ + + d + +1M++ dP++R t ++ ++ +

240 FDSPY----WddisDSAKDFIRNLMEK----DPNKRYTCEQAarHPWI

Title: 68730 and 69112, Protein Kinase Molecules and

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Amorney/Agent: 18.2. M. Silveri Docket No.: MPI2000-521P1RM

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<pre>pkinase: domain</pre>	1 of *-	1, from 356 to 613: score 350.2, E = 2.3e-101 ->yelleklGeGsfGkVykakhk.tgkivAvKilkkeslslrE
69112	356	ye+++++G G+f++V++++h++t + +A+Ki++k++1+++++ +E YETGRVIGDGNFAVVKECRHReTRQAYAMKIIDKSRLKgkedmvDSE 402
69112	1.	<pre>ilkrlsHpNIvrllgvfedtddhlylvmEymegGdLfdylrrngplse i ++lsHpNIv+l++v+e td ++yl++Ey+ gGdLfd + + +++e iIQSLSHPNIVKLHEVYE-TDMEIYLILEYVQGGDLFDAIIESVKFPE 451</pre>
69112	++8	akkialQilrGleYLHsngivHRDLKpeNILldengtvKiaDFG a ++ +++++ ++H+++ivHRDLKpeN+L+ +n++++ t+K+aDFG AALMIMDLCKALVHMHDKSIVHRDLKPENLLVQRNedksTTLKLADFG 501
69112 5	LA+	rll.eklttfvGTpwYmmAPEvilegrgysskvDvWSlGviLyElltg + + + t++GTp+Y+ APE+ l+ +gy+ +vD+W+ GviLy ll+g KHVvRPIFTVCGTPTYV-APEI-LSEKGYGLEVDMWAAGVILYILLCG 549
69112 5		lfpgadlpaftggdevdqliifvlklPfsdelpktridpleelfrikk +Pf+ ++ +elf+i++ FPPFRSPERDQDELFNIIQ 568
69112 5	++	rlplpsncSeelkdLlkkcLnkDPskRpGsatakeilnhpwf<- + + ++p ++n+S+++kdL++++L +DP+kR+ ta+++l+hpw+ nfefLPPYWDNISDAAKDLVSRLLVVDPKKRYTAHQVLQHPWI 613

Docket No.: MPI2009-52!P1RM Sheet 7 of 8 Sheets serkin_6: domain 1 of 1, from 356 to 613: score 372.7, E = 3.8e-108 *->YellkklGkGaFGkVylardkktgrlvAiKvik....erilrE Ye ++++G G F++V+ +r+++t + +A+K+i++++ ++++++ +E 69112 356 YETGRVIGDGNFAVVKECRHRETRQAYAMKIIDksrlkgkeDMVDSE 402 ikiLkk.dHPNIVkLydvfed.dklylVmEyceGdlGdLfdllkkrgrrg i i ++ HPNIVkL++v+e++ ++yl++Ey+ G GdLfd ++ +69112 403 ILIIQS1SHPNIVKLHEVYETdMEIYLILEYVQG--GDLFDAIIESVK-- 448 lrkvlsE.earfyfrQilsaLeYLHsqgIiHRDLKPeNiLLds.....h ++E++a+ ++ +++aL ++H++ I+HRDLKPeN+L+ +++++++ 69112 449 ----FPEpDAALMIMDLCKALVHMHDKSIVHRDLKPENLLVQRnedkstT 494 vKlaDFGlArql....ttfvGTpeYmAPEvl...gYgkpavDiWSlGcil +KlaDFGlA+++ ++ t++GTp Y+APE+l+++gYg +vD+W+ G+il 69112 495 LKLADFGLAKHVvrpiFTVCGTPTYVAPEILsekGYGL-EVDMWAAGVIL 543 yElltGkpPFp....qldlifkkig......SpeakdLikkl y+ll+G pPF++++++d++f++i ++ + ++++++ S+ akdL+++1

LvkdPekRlta.eaLedeldikaHPff<-*

Lv+dP+kR+ta++L+

594 LVVDPKKRYTAhQVLQ-----HPWI

544 YILLCGFPPFRsperDQDELFNIIQlghfeflppywdniSDAAKDLVSRL 593

HP++

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Аррисант: кајазекнаг Банчаги

USSN: 15024,036 F Attorney/Agent: Jean M. Silveri

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             Act. 1...29/Agent: Jean M. Silveri
             Docket No.: MPI2000-521P1RM
                               Sheet 8 of 8 Sheets
tyrkin_6: domain 1 of 1, from 356 to 613: score 50.0, E = 5.3e+15
                   *->ltlgkkLGeGaFGeVykGtlk...ieVAVKtLkeda....keeFlrE
                       + q+++G G+F +V +++ +++++ A K + ++ ++++ +E
       69112
               356
                      YETGRVIGDGNFAVVKECRHRetrQAYAMKIIDKSRlkgkEDMVDSE 402
                   akiMkklGgkHpNiVkLlGvcteegrrFmevePlmivmEymegGdLldyL
                   + i +l +HpNiVkL+ v ++ ++++Ey+ gGdL d +
       69112
               403 ILIIQSL--SHPNIVKLHEVYETD-----MEIYLILEYVQGGDLFDAI 443
                   rknrpklslsdLlsfAlQIAkGMeYLesknfvHRDLAARNcLvgenk...
                    ++ + ++ +d + + +k
                                         + ++k +vHRDL
                                                         N Lv +n +++
       69112
               444 IESVK-FPEPDAALMIMDLCKALVHMHDKSIVHRDLKPENLLVQRNEdks 492
                   . \verb|vvKIsDFGLsRdlyddDkkGeskdyYrkkggkggktllPirWmAPEslk|
                  ++ K +DFGL++ +
                                             ++
                                                  +g
      69112
              493 tTLKLADFGLAKHVVRP-----IFTV----CGTP----TYVAPEILS 526
                  \tt dgkFtskSDVWSFGVlLWEiftlGeqPYpgeiqqfmsneevleylkkGyR
                  ++ + + D W+ GV L+ i+ G +P ++ ++e+++++ G+
      69112
              527 EKGYGLEVDMWAAGVILY-ILLCGFPPFRSPE---RDQDELFNIIQLGHF 572
                  lpkPendlpiSsvtCPdelYdlMlqCWaedPedRPtFsel..verl<-*</pre>
                                 +d+ dl ++ dP++R t ++ ++
      69112
              573 EFLPPY----WDNISDAAKDLVSRLLVVDPKKRYTAHQVlqHPWI
                                                                     613
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Applicant: Kajasekilai Danuaru

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